Bruhat Bangalore Mahanagara Palike
Executive Engineer Yelahanka Division

Name of Work: Construction of culverts in ward no:05 Yelahanka New Town Sub Division

								Estimate Cost	30.00 Lakhs
	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	Earth work **excavation by manual means for drains**,canals, waste weir, draft, approach channels, key trenches, foundation of bridges and such simillar works in all kinds of soils , as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, excavated surface leveled and sides neatly dressed disposing off the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools & other appurtenaces required to complete the work . Loading and Unloading of Stone Boulder/Stone aggregates/Sand/Kankar/Moorum.(Tipper 5.5 m3) (V-I.No 1.4,Page No-5 PWD SR 2021-22) & (V-III Page No.3, Item No.1.1 A of PWD SR 2021-22)								
	Basic Rate	186.00							
	Loading And Unloading	118.00							
	Sub Total	304.00							
	Area Weightage 10%	30.40							
	Total Rate	**334.40**							
	Culvert								
	Ward No-04								
		22	6.20	1.80	1.10	270.07			
						270.07	**Cum**	**334.40**	**90,312.08**
2	Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately) **Mix 1:3:6 (M10) Using 40 mm** nominal size graded crushed coarse aggregates (V-1, P.No-15, I No-2.1.3 of PWD SR 2021-22)(Issue rate on 07-07-22)								
	Basic Rate	**5554.00**							
	Area Weightage 10%	**555.40**							
	Total Rate	**6109.40**							
	Culvert								
	Ward No-04								
		22	6.20	1.80	0.15	36.83			
						36.83	**Cum**	**6109.40**	**224996.98**
3	Supplying, **Fitting and Placing un-coated TMT bar** Reinforcement in sub-structure complete as per Drawing and Technical Specifications.(V-III, I.No 13.1 Page No 99, PWD SR 2021-22) (Issue rate on 07-07-22)								
	Basic Rate	**92170.00**							
	Area Weightage 10%	**9217.00**							
	Total Rate	**101387.00**							
	For RCC Culvert, 90kg/Cum	1	72.29	90.00		6506.28			
						6506.28			

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	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
						6.51	Tn	101387.00	659652.21
	Providing and laying in position **Reinforced cement concrete** for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork to be paid separately) **M20 Design Mix Using 20 mm** nominal size graded crushed coarse aggregates (V-1,P.No.17, I.No.2.4.2 of PWD SR 2021-22) Apendx I, V-I P.No-115)(Issue rate on 07-07-22)								
	Basic Rate	**5968.00**							
	5% Centring	**298.40**							
	Sub Total	**6266.40**							
	Area Weightage 10%	**626.64**							
	Total Rate	**6893.04**							
	Culvert Raft								
	Ward No-04								
		22	6.20	1.50	0.20	40.92			
	Culvert Wall								
	Ward No-04								
		44	6.20	0.23	0.50	31.37			
						72.29			
						72.29	**Cum**	**6893.04**	498311.65
5	Providing and fixing precast reinforced cement concrete **covering slabs of 23Cm thick** made of M25 with OPC cement,@340kgs/cum with 20mm and down size graded granite metal coarse aggregate @0.70cum and fine aggregate & 0.74 cum with superplasticizer machine,mixed, Inculding providing and removing centering, shuttering, strutting propping etc., for edges of slabs with TMT steel (Fe500) cost of all materials, labour, all lead and lift, HOM of machinery, curing, including cost of reinforcement etc., complete as directed by the Engineer in charge of the work.(Exclusive of GST and Area Loading Charges)								
	Data Rate	**5037.00**							
	Culvert Covering Slabs								
	Ward No-04								
		22	6.20	1.50		204.60			
						204.60	**Sqm**	**5037.00**	1030570.20
6	**Cost of Haulage Excluding Loading** and Unloading Taking output 10 t load and lead 10 km = 100 t.km(V-III Page No.3, Item No.1.4A of PWD SR 2021-22)								
	Basic Rate	**12.00**							
	8KM Lead = 12*8	**96.00**							
	Area Weightage 10%	**9.60**							
	Total Rate	**105.60**							
	Qty frm Item No-1		270.07	1.28		345.69			
						345.69	**t.Km**	**105.60**	36,505.09

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Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
								Total Construction Cost	2540348.21
								18% GST for Construction Cost	457262.68
								Sub Total	2997610.89
								Utility Shifting,Miscellaneous and Rounding off	2,389.11
								GRAND TOTAL	3000000.00

Certificate

1. The workspot was inspected and works is found to be necessary.
2. The area comes within the Bruhat Bangalore Mahanagara Palike limits.
3. The rates adopted based on the PWD SR,Bangalore circle for year 2021-2022, issue rates dated 07-07-2022 and Data Rates

Assistant Engineer
Ward No-05
BBMP Bangalore

Asst. Executive Engineer,
Yelahanka New Town Sub Division
BBMP Bangalore

Executive Engineer,
Yelahanka Division
BBMP Bangalore

Administrative Approval
Accorded For ...30.00 Lakhs
Head of A/C...P-3726...
CER NO :.....86..... Dt:22/8/22

TA CE (NH)

Technical Sanction
Accorded For ...30.00 Lakhs
Head of A/C...P-3726...
CER NO :.....89..... Dt:22/8/22

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